

BRUHATH BANGALORE MAHANAGARA PALIKE, DASRAHALLI ZONE

Office Of The Executive Engineer, Dasarahalli Division

SCHEDULE-B

OF THE WORK: Providing Drinking Water Works in Ward No 13 In Dasarahalli Division

Description Of Work	Unit	Qty	Rate To Be Approved	
			In Figures (Rs)	In Words (Rs)
2	3	4	5	6
KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water cum supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as Enggineer Incharge	cum	40.11	305.64	Rupees Three Hundred Five And Sixty Four Paise Only
KSRB 4-1.2 : Providing and laying in position plain cement concrete of cum mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as Enggineer Incharge	cum	5.94	5449.68	Rupees Five Thuosand Four Hundred Forty Nine And Sixty Eight Paise Only
KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete asper complete as Enggineer Incharge	cum	7.37	4521.96	Rupees Four Thousand Five Hundred Twenty One And Ninty Six Paise Only
4 KSRB 5.3-3: Providing and constructing granite / trap / basalt size stone masoniy in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete asper complete as Enggineer Incharge	cum	2.33	5405.40	Rupees Five Thuosand Four Hundred Five And Four Paise Only
5 KSRB 4.2.2 : Providing and laying in position reinforced cement cum concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggretes @ 0.460 cum, with super piasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement complete as Enggineer Incharge	cum	5.49	6491.88	Rupees Six Thousand and Four Hundred and Ninety One and Eighty Eight Paisa Only

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6	KSRB 2.3: Filling available excavated earth (excluding rock) in sides cum of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as Enggineer Incharge	cum	20.06	137.16	Rupees One Hundred Sixty And Sixteen Paise only
7	KSRB 2.5 : Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as Enggineer Incharge	Cum	30.96	274.32	Rupees Two Hundred Seventy Four And Thirty Two Paise Only
8	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3its confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for ail works in ground floor level for roof slabs, staircase, lintels, and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement complete as Enggineer Incharge	Cum	4.98	6650.64	Rupees Six Thousand Six hundred Fifty And Sixty Four Paise Only
9	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded cum granite metal coarse aggregates @ 0.878 cum and fine aggretes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, nciuding cost of all materials, labour, HOM of machinery, curing complete as Enggineer Incharge	Cum	2.30	5876.28	Rupees Five Thousand Eight Hundred Seventy Six And Twenty Eight Paise only
10	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as Enggineer Incharge	Sqm	11.70	249.48	Rupees Two Hundred Forty Nine And Fourty Eight Paise Only
11	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, Sqm. propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as Enggineer Incharge	Sqm	19.20	395.28	Rupees Three Hundred ninty Five And Twenty Eight Paise only

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Rupees Three Hundred Sixty only	14	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications up to 3.50m from ground level. complete as Engineer Incharge	Sqm	16.40	338.04	Rupees Three Hundred Thirty Eight And Four Paise only
		KSRB 4-6.9 Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as Engineer Incharge	Sqm	2.56	732.24	Rupees Seven hundred Thirty Two And Twenty Four Paise Only
	14	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, Sqm propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as Engineer Incharge	Sqm	27.76	276.48	Rupees Two Hundred Seventy Six And Fourty Eight Paise only
	15	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as Engineer Incharge	Tonne	1.05	65455.56	Rupees Sixty Five Thousand Four Hundred Fifty Five And Fifty Six Paise Only
	16	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200mm having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to JS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of ail materials labour charges, scaffolding, curing, hire charges of machineries complete as Enggineer Incharge	Sqm	32.83	1011.96	Rupees One Thousand Elean and Ninty Six Paise Only
	17	KSRB 5-15: Providing and constructing non load bearing wall with solid Sqm concrete blocks of size 400x100x200mm having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries complete as Enggineer Incharge	Sqm	6.80	773.28	Rupees Seven hundred Sevebty three And Twenty Eight Paise only



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18	KSRB 7.5 : Providing and fixing pull and push type rolling shutters Sqm of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips; suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as Enggineer Incharge	Sqm	5.25	3090.96	Rupees 7 thousand And ninety Paise Only
19	KSRB 7.6 : Providing and fixing top covers made out of 20 guage M.S. sheet over pull and push rolling shutters bent to shape including cost of red lead primer coat of painting, materials, labour, HOM of machinery complete as Enggineer Incharge	Mtr	2.10	510.84	Rupees Five Hundred Ten And Eighty Four Paise Only
20	KSRB 7.15 : Providing, fabricating, assembling and fixing in position aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1 mm. with thickness of 2mm. having section weight, plain sections 1.054kg/m, single grove thickness 1.95mm. section weight 1.094kg/m, double grove thickness 1.9mm section weight 1.094kg/m and bottom member 114.3 mm. x 44.45mm. thickness 3.18mm. weight 2.646 kg/m; aluminium louvres section of size 36. 5mmx34.93mm 1.45mm. thick section weight 0.429kg/m; bottom portions provided with 12mm. thick prelaminated sheet both sides of approved colour lamination exterior grade upto G.9m height, spacing of vertical member not exceeding 0.6 m. c to c; sections are cut to the required lengths, joints mitered and corners grinded subdividing frames tennoned and rivetted to the frames; the assembled frame stiffened with corner angles, stripped and fixed with screws, raw! plugs and teak wood gutties to R.C.C.columns on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistelling and making good with cement mortar to match the surface; providing and fixing 5.5mm. thick plain glass for middle portion viz., fr.9m. to 2.13 m. and top panel with louvres sections; the glass and panels fitted with glazing clips of 19mmx17.3mm. of thickness 0.9mm. weight 0.124kg/m, aluminium sections treated for removal of any rust and prevention of further rust formation, coated with greasy materials for non-adherence of mortars or any other sticky materials; vertical members embedded in the flooring by making suitable sized holes and fixing with cement mortar, with necessary opening for fixing of door of standard size (excluding cost of door) all the frame thoroughly cleaned, free from rust, scale or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications.using aluminium section powdered coated to a minimum of Sqm 60-70 microns with exterior durable pure polyester grade powder of approved quality. complete as Enggineer Incharge	Sqm	4.15	3566.16	Rupees Three Thousand Five hundred Sixty Six And Sixteen Paise Only

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21	7.17 : Providing, fabricating, assembling and fixing in position aluminium doors using following, aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness . 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top . section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91 x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11 mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred corners grinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherence of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides, beams and flooring in bottom, including cutting, chisling and making good with cement mortar to match the surface; all the frames thoroughly cleaned free from rust, scale, or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications.using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality. complete as Engineer Incharge	Sqm	2.10	6814.80	Ninety Rupees and Seventy Two Paise Only
22	Providing and fixing Special make glazed Vitrified tiles (Granomite Sqm finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc., cost of materials, mortar, labour complete as Engineer Incharge	Sqm	12.00	1285.20	Rupees One thousand Two Hundred Eighty Five And Twenty Paise Only
23	KSRB 14-17.2 : Providing skirting, dadoing, rises of steps with colour glazed tiles 15x15cm 6mm on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as Engineer Incharge	Sqm	2.04	1157.76	Rupees One Thousand One Hundred Fifty Seven And Seventy Six Paise Only

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24	KSRB 15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing complete as Engineer Incharge	Sqm	53.81	252.72	Rupees coats r Hundred shade Two Ar. Seventy Pa Only
25	KSRB15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as Engineer Incharge	Sqm	34.95	263.52	Rupees Two hundred Sixty Three And Fifty Two Paise only
26	KSRB 15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing complete as Engineer Incharge	Sqm	16.00	208.44	Rupees Two Hundred Eight And Forty Four Paise Only
27	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as Engineer Incharge	Sqm	50.95	27.00	Rupees Twenty Seven Only
28	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. Area to be considered-(a) 100% for fresh surface (b) Upto 10 % for repainting complete as Engineer Incharge	Sqm	50.95	60.48	Rupees Sixty And Fourty Eight Paise Only
29	KSRB 15-15.1 : Providing and applying painting with primer in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as Engineer Incharge	Sqm	50.95	97.20	Rupees ninty Seven And Twenty Paise Only

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Rupees Four And Thirty Two Paise Only	KSRB 15-15.2 : Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and shade on ceiling and / or sloping roof complete as Enggineer Incharge	Sq.m	50.95	4.32	Rupees Four And Thirty Two Paise Only
31	Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles, the surface is then cleaned with water and ensured that it is in line and level. The textured material is then mixed with 40-50% of clean water until a homogeneous thick slurry is formed, the slurry is left for 5-10 min, to react completely with ingredients. The textured finish prepared as above is then applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel to get the desired finish. The finished surface shall be applied with two coats of exterior paint of approved shade. The rate includes providing and removing scaffolding, all lead and lift and all other incidental charges complete as Enggineer Incharge	Sq.m	53.81	375.84	Rupees Three Hundred Seventy Five And Eighty Four Only
32	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after thoroughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as Enggineer Incharge	Sq.m	12.18	31.32	Rupees thirty One And Thirty Two paise Only
33	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as Enggineer Incharge	Sq.m	12.18	88.56	Rupees Eighty Eight And Fifty Six Paise Only
34	KSRB 8.6-7: Providing and fixing on wall surface 4.0 kg I sq.cm H.D.P.E. rain down water pipes 110mm outer dia. approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete as Enggineer Incharge	M	25.00	613.44	Rupees Six Hundred Thirteen And Forty Four Paise Only
35	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 :1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For1000 litre capacity) complete as Enggineer Incharge	Nos	1.00	9144.36	Rupees Nine Thousand One Hundred Forty Four And Thirty Six Paise Only
36	Supply of water purification unit , installation and commissioning 1000LPH with Chloride Plant with mild steel vessel without UV complete as Enggineer Incharge	Nos	1.00	615000.00	Rupees Sixty Lakh And Fifteen Thousand Only



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37	Additional price for installation of Ultra Violet System complete as Enggineer Incharge	Nos	1.00	10000.00	Ru. thousand
38	Providing and fixing Chlorinated Poly Vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the wallsetc.) complete as Enggineer Incharge				Usine
a	20 MM Pipe	Mtr	40.00	226.80	Rupees Two Hundred Twenty Six And Eighty Paise Only
b	25 MM Pipe		40.00	270.00	Rupees Two hundred And Seventy Only
c	32 MM Pipe		40.00	334.80	Rupees Three hundred Thirty Four And Eighty paise Only
39	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipes ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. 19/20mm dia 2mm thick complete as Enggineer Incharge	Rmt	20.00	43.00	Rupees Forty Three Only
40	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of complete as Enggineer Incharge	Rmt			
	Group-A.				
	1.0 Sqm		40.00	13.00	Rupees Thirteen Only
	2.5Sqm		40.00	29.20	Rupees Twenty Nine And Twenty Paise Only
	4.0Sqm		70.00	42.10	Rupees Fourty Two And Ten Paise Only
41	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit/casing capping using 1100V Grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2x1.5 Sq.mm Cable conforming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet complete as Enggineer Incharge	Each Part			

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2	Supplying class A materials complete as Enggineer Incharge				
	Short point up to 3mtrs from tapping point to out let via switch		2.00	144.00	Rupees One Hundred Fourty Four Only
	Medium point a above 3mtr up to 6mtr from tapping point to out let via switch		2.00	215.00	Rupees Two hundred Fifteen Only
			2.00	334.00	Rupees three Thirty Four Only
2	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate.. complete as Enggineer Incharge	Each			
	6Amps SP Switch		1.00	63.00	Rupees Sixty three Only
	6Amps 3way 5 pin socket		1.00	95.00	Rupees Ninty Five Only
	16Amps SP Switch		3.00	114.00	Rupees One Hundred Fourteen Only
	16Amps 3way 5 pin Socket		3.00	147.00	Rupees One Hundre Fourty Seven Only
43	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B 3.7.18) 1000-1200Watts Dimmer complete as Enggineer Incharge	Each	1.00	447.00	Rupees Four Hundred Fourty Seven Only
44	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 6.16.1) 5-32Amps SP complete as Enggineer Incharge	Each	2.00	418.00	Rupees Four Hundred Eighteen Only
45	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia complete as Enggineer Incharge	Nos	2.00	2727.00	Rupees Two Thousand Seven Hundred Twenty Seven Only
46	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 6.7.1) 16Amps complete as Enggineer Incharge	Each	1.00	120.00	Rupees One Hundred Twenty Only

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47	Supply patty type fluorescent tube light fitting of 4'-36/40 watts fluorescent tube fitting, made out of M.S sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 Volts A C Supply including 1 No 4'-36/40 Watts fluorescent tube. c) Group 'C' complete as Engineer Incharge	Each	5.00	340.00	Rupees Three Hundred Fourty Only
48	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. 17.7.1) On wall / ceiling / Rafter / Girders complete as Engineer Incharge	Each	5.00	98.00	Rupees Ninty Eight Only
49	SHORT POLES: (whereas clearance between Messenger wire and ground is inadequate) a) Supplying and fixing 40mm dia 2.90 thick GI pipe 1.8m long complete with atleast 2 GI pipe 1.8m, long complete with atleast 2 Nos of through bolts 12 mm dia with MS back plate 100x100x6mm dia with eye bolt fixed at top deadeninding messenger wire with masonry patch work etc., complete as per approved drawing (for single phase installations) complete as Engineer Incharge	Each	1.00	525.00	Rupees Five Hundred Twenty Five Only
50	INSULATED CABLE ON MESSENGER WIRE Using 2 single core wires for a single phase and 4 single core wires for 3 phase. Supplying and stringing PVC insulated and PVC sheathed 650/1100V class aluminium conductor of size supported by 3.15mm (10 SWG) GI messenger wire with two break insulators one at each end of the span with suspenders at intervals of 0.75m. Each suspender shall be of porcelain reel insulator of suitable core through which insulated wire passes (single core or twin core as the case may be) and this reel insulator shall be fixed to the messenger wire using 2mm (No.14SWG) GI wire suitably bent and twisted. Separate reel insulator shall be provided for each wire, the messenger wire shall be ded-ended on the clamp provided to the departmental pole wide item No.4 above. (Page No.56 item No.5 a) Single Phase using 2 Wire e) 16 Sqmm complete as Engineer Incharge	Rmt	30.00	85.00	Rupees Eighty Five Only


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